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## In the claims:

1 1-8. (previously canceled).

9. (amend) A laser amplifier, comprising: 1 2 a gain medium; 3 a polarization rotator; 4 a passive polarizer; a plurality of reflectors configured to define an optical path through the gain medium, the 5 passive polarizer, and the polarization rotator; and 6 a phase conjugator configured to receive a beam from the optical path after the beam 7 pulse has proceeded one or more transits through the optical path, the phase conjugator further 8 configured to return the beam with reversed phase to the optical path to proceed an equal number 9 of transits of the optical path in an opposite direction before exiting the optical path; and 10 a relay telescope having a telescope focal point, between the gain medium and the 11 passive polarizer, which is used for relaying images between the gain medium and a location in 12 the optical path near the passive polarizer, off angle beams being generated in the optical path in 13 addition to a desired beam, the relay telescope having a baffle near said telescope focal point to 14 block the off angle beams while passing the desired beam, the baffle comprising a solid member 15 having an optically transparent channel, the optically transparent channel having openings on 16 opposite ends of the solid member, and a waist within the solid member near said telescope focal 17 point, said waist being smaller than said openings, and said channel having sides which taper 18 near said waist at a grazing angle in a range of about 1 to 10 degrees. 19

1 10. (cancel).

- 1 11. (original) The system of claim 9, wherein said channel comprises a hollow in said member.
- 1 12. (original) The system of claim 9, wherein said optical cavity is aligned with walk off so that
- 2 stray beams that transit the optical cavity more times than specified are blocked by said baffle.
- 1 13. (previously canceled)
- 1 14. (original) The system of claim 9, wherein said location in the optical path is adjacent the
- 2 polarization rotator and the passive polarizer.
- 1 15. (original) The system of claim 9, including a second relay telescope in the optical path to
- 2 relay images between said location and the phase conjugator.
- 1 16. (original) The system of claim 9, including a second relay telescope in the optical path to
- 2 relay images between said location and the phase conjugator, the second relay telescope having a
- 3 baffle which blocks off angle beams.
- 1 17. (amend) A laser amplifier, comprising:
- 2 a gain medium;
- 3 a polarization rotator;
- 4 a passive polarizer;
- a plurality of reflectors configured to define an optical path through the gain medium, the
- 6 passive polarizer, and the polarization rotator; and
- a phase conjugator configured to receive a beam from the optical path after the pulse has
- 8 proceeded one or more transits through the optical path, the phase conjugator further configured
- 9 to return the beam with reversed phase to the optical path to proceed an equal number of transits
- of the optical path in an opposite direction before exiting the optical path; and
- a relay telescope having a telescope focal point, between the gain medium and the
- 12 passive polarizer, which is used for relaying images between the gain medium and a location in
- 13 the optical path near the passive polarizer, the relay telescope comprising
- 14 a first relay lens;
- 15 a second relay lens;

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a vacuum chamber between the first and second relay lenses, the first and second relay 16 lenses focusing beams at a common focal point within the vacuum chamber; 17 a kinematic mount within the vacuum chamber, adapted to secure beam baffles near 18 the common focal point; and 19 an access port on the vacuum chamber, adapted for insertion and removal of beam 20 baffles; and including 21 a baffle adapted to be mounted in said kinematic mount, said baffle comprising a solid 22 member having an optically transparent channel, the optically transparent channel having 23 openings on opposite ends of the solid member, and a waist within the solid member near said 24 telescope focal point, said waist being smaller than said openings, and said channel having sides 25 which taper near said waist at a grazing angle in a range of about 1 to 10 degrees. 26 1 18. (cancel) 1 19. (cancel) 20. (amend) The system of claim 17, including a baffle adapted to be mounted in said kinematic 1 mount, said baffle comprising a solid member having a wherein said optically transparent 2 3 channel comprises defined by a hollow in said solid member, the channel having openings on opposite ends of the solid member, and a waist within the solid member near said telescope focal 4 point, said waist being smaller than said openings, and said channel having sides which taper 5 6 near said waist. 1 21. (cancel) 22. (amend) The system of claim 17, including a far-field, tapered baffle adapted to be mounted 1 in said kinematic mount, said far field, tapered baffle comprising a solid member having an 2 optically transparent channel, the optically transparent channel having openings on opposite ends 3 4 of the solid member, and a waist within the solid member near said telescope focal point, said waist being smaller than said openings, and said channel having sides which taper near said 5 waist; and a far-field alignment baffle adapted to be mounted in said kinematic mount, said 6 7 alignment baffle comprising a pinhole aperture.

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- 23. (original) The system of claim 17, including a near-field baffle mounted adjacent one of said
- 2 first and second relay lenses.
- 1 24. (original) The system of claim 17, including a first near-field baffle mounted adjacent said
- 2 first relay lens, and a second near-field baffle mounted adjacent said second relay lens to block
- 3 stray beams.
- 1 25. (original) The system of claim 17, wherein said optical cavity is aligned with walk off so that
- 2 stray beams that transit the optical cavity more times than specified are blocked by a baffle in
- 3 said kinematic mount.
- 26. (original) The system of claim 17, wherein said location in the optical path is adjacent the
- 2 polarization rotator and the passive polarizer.
- 1 27. (original) The system of claim 17, including a second relay telescope in the optical path to
- 2 relay images between said location and the phase conjugator.
- 1 28. (original) The system of claim 17, including a second relay telescope in the optical path to
- 2 relay images between said location and the phase conjugator, the second relay telescope having a
- 3 baffle which blocks off angle beams.
- 1 29-36. (previously canceled)